https://www.youtube.com/watch?v=ZweO5YEZ4SA

http://ct2ggx.blogspot.com/2014/

Sunday, November 9, 2014

Service Mode TS-2000

Most TS-2000 owners find that the radio's service menu is accessed by the [NR] + [Mic] and [Power] keys (pressed together), said service menu only appears with this set of keys if it has been sent to the radio. In this way, the service menu is actually a program that is installed via the computer through the Kenwood application (W05-0855-00 FWS for TS-2000) and that should be disabled after the adjustments, but there is always a but, some radio owners leave it enabled to be able to make modifications, most of the time changing the power of the radio, without significant gains in dbs, but certainly harming the entire original design of the radio, exhausting its ICs and power transistors.

Searching the web night and night I got a series of information about the "Service Menu" and of course how to update the radio's firmware.

- First we have to get the "Service software" :

  W05-0855-00 FWS for TS-2000

- Second, we have to get the memory manager to back up the configurations: For the software to work correctly you have to read it first and only then send some configuration and of course make the backup.

MCP2000

- Third, we have to get the latest firmware from Kenwood for the TS-2000.

  TS2k111

- Fourth is the radio control and operation program, with this program you can control the radio without touching the buttons on the panel only through the computer.
  ARCP2000

- Fifth, download this table from the "Service Menu" so that you can write down the changes you make and then be able to return them to the state they were before.
  Contribution from friend Rui Valente CT2GGX
  TS-2000 SERVICE TABLE

You will also need an RS-232C serial cable (straight cable) pin-to-pin cable, i.e. pin 01 on one side of the cable corresponds to pin 01 on the other end of the cable and of course all other pins too.

At this point it would be good for you to install the ARCP2000 testing the radio / computer communication using the serial cable.

First of all back up your memories and settings using the MCP2000 and then do a FULL RESET (press the [A=B] key and the [POWER] key) the message " FULL RESET PUSH A=B SW " will appear , press [A=B] to perform the FULL RESET.

Now go to menu 56 and set the radio to 9600 baud communication speed.

Turn off the radio and disconnect the serial cable and power cable.

Now you will need to remove the bottom cover of the radio there is no need

to remove the screws from the top cover.

Locate the "S1 " switch on the main board , it is near the DRU 3A recorder . It is very small and has a silver finish. Is very fragile, so be careful ! It should be in the "Off" position (it's for the back of the radio), move it to the "On" position (it's for the front of the radio) . Make sure the power cord is removed and toggle switch "S1" to "on" (front).

Connect the serial cable to the radio, plug in the power cable.
Do not turn on the radio (do not press the power key).

Run "Service Software" W05-0855-00 FWS for TS-2000 and click "adjust firmware write". You will see a blue bar loading the "Service Menu", so click "write to radio" , wait for the procedure to finish.

Unplug the power cord.

Return the "S1" switch to the OFF position (behind the radio).

Close the W05-0855-00 FWS for TS-2000 program , you will no longer need it.

Turn on the radio, then do a FULL RESET (press [A=B] key and [POWER] key) the message " FULL RESET PUSH A=B SW " will appear , press [A=B] button to perform the FULL RESET.

When the radio is reset it will turn off, so turn it on again by pressing the [NR] + [Mic] and [Power] keys (pressed together) . The radio should beep several times and will show " ADJ" instead of "Hello " on the screen. If it continues to beep, just press the [MENU] key or the [CLR] key.

Now the fun begins ! Then you must turn the radio off and on again by holding the [NR] + [Mic] and [Power] keys (pressed together), s and continue beeping just press the menu key or the CLR key.

And fly there !!!!! The famous Service Menu will appear there are 127 menu

items that can be adjusted . I recommend that you scroll through all items using the [Multi/ CH] and write it down in that pdf spreadsheet (TS-2000 SERVICE TABLE) provided by our Portuguese friend CT2GGX.

Remember any changes are your own responsibility, be careful you can damage your radio with these changes, if you are not aware do not make them.

After the modifications you found necessary, select the Menu item "124" and press the [+] key one or more times to save the changes to the EPROM.

At this point you can turn off the radio using the [Power] button and turn it on again, the word "ADJ" will appear (s and continue beeping just press the [MENU] key or the [CLR] key). your tests and adjustments and make sure everything is ok.

So now let's disable the "Service Menu" and send the newest firmware to the radio. Turn off the radio, disconnect the power cord and the serial cable. Set the "S1 " switch to the "On" position (it is towards the front of the radio) . Make sure the power cord is removed and toggle switch "S1" to "on" (front).

Connect the power cord, do not turn on the radio with the [Power] button. Run the TS2k111 firmware update program (TS-2000 Firmware Update Version 1.11 (November / 2013) ,
Kenwood Guidelines (follow these steps).

Transfer the firmware to the radio, wait for the process to complete. Unplug the power cord, reposition the switch "S1" to the OFF position (back of the radio).

Close the TS2k111 program , you will no longer need it.

Turn on the radio, then do a FULL RESET (press [A=B] key and [POWER] key) the message " FULL RESET PUSH A=B SW " will appear , press [A=B] button to perform the FULL RESET.

Turn off the radio again, and then press the [NR] + [Mic] and [Power] keys (pressed together), "ADJ OK PROG" and the current firmware version 2bF7 (November / 2013 V.1.11) will appear .

You can now use the MCP2000 program to back up your previously saved settings and memories.

Now your radio is ready to be enjoyed, all this information has been collected on the net, if there is anything wrong with this step by step please let us know. Thanks to everyone who contributed to this publication, especially CT2GGX , N7BUI , PP2RS .

Thanks to Kenwood, mods.dk and the adjust_ts2000 Yahoo group. Below are some links to research: ***Remember any changes are your responsibility, be careful you can damage your radio with these changes, if you are not aware, do not do them.***